

TWISTED PAIR COMMUNICATION SYSTEM

ABSTRACT

A communication system for passing information between information services and terminal devices over a twisted wire pair network. The information services include a telephone exchange and other services, such as a data network and a television distribution system. The terminal devices include telephones and other devices, such as computers and televisions. The system includes a main information interface coupled to the information services and to the twisted wire pair network, which couples the terminal devices and to the main information interface. The wiring network includes multiple active telephone pairs for passing voice signals between the telephone exchange and telephones. The information interface includes circuitry for combining on the active telephone pairs (a) telephone signals in a telephone frequency band passing between the telephone exchange and the one or more telephones and (b) high frequency signals in a high band of frequencies higher than those of the telephone frequency band passing information between the other information services and one or more of the terminal devices.

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